

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1. (Original) A process for the production of a non-woven, comprising the following manufacturing steps;

- a) preparing at least one layer ( $T_1$ ) of splittable multi-component polymer fibers;
- b) hydro-entangling said at least one layer such as to obtain a non-woven where the multi-component polymer fibers are split into mono-component micro-fibers entangling with one another.

Claim 2. (Original) The process according to claim 1, wherein step a) comprises:

preparing at least one layer ( $T_1$ ) of splittable multi-component polymer fibers;  
laying at least one layer of fibers of absorbent material ( $T_3$ ) on said at least one layer ( $T_1$ ),

whereby the hydro-entangling step b) takes place such as to obtain a non-woven where the multi-component polymer fibers which are split into mono-component micro-fibers entangle both with one another and the fibers of the absorbent material.

Claim 3. (Original) The process according to claim 1, wherein step a) comprises:

preparing at least one layer ( $T_1$ ) of splittable multi-component polymer fibers;  
laying at least one layer of fibers of absorbent material ( $T_3$ ) on said at least one layer ( $T_1$ );

laying at least one further layer ( $T_2$ ) of splittable multi-component polymer fibers on said at least one layer of fibers of absorbent material,

whereby the hydro-entangling step b) takes place such as to obtain a multi-layer non-woven where the multi-component polymer fibers are split into individual mono-component micro-fibers entangling both with one another and the fibers of the absorbent material.

Claim 4. (Previously Presented) The process according to claim 1, wherein said step a) is made through separate extrusion of at least two polymers by a suitable spinneret (5,7,11,15) below which said at least two polymer components are linked such as to form a single splittable multi-component fiber.

Claim 5. (Original) The process according to claim 4, wherein said splittable multi-component fiber is obtained by spinning and subsequently linking up to 16 continuous threads of different polymers.

Claim 6. (Previously Presented) The process according to claim 1, wherein said polymer fibers derive from at least two threads of a single polymer up to 16 threads of different polymers, be they homopolymers, copolymers or mixtures thereof.

Claim 7. (Original) The process according to claim 6, wherein said polymers are selected from polyesters, polyamides, polyolefins, polyurethane, polyester modified with additives, polypropylene, polyethylene, polypropylene terephthalate, polybutylene terephthalate.

Claim 8. (Original) The process for the production of a non-woven, comprising the following manufacturing steps;

- i) preparing at least one layer ( $T_1$ ) of exploded polymer fibers;
- ii) hydro-entangling said at least one layer such as to obtain a non-woven where the polymer fibers are exploded into micro-fibers entangling with one another.

Claim 9. (Original) The process for the production of a non-woven according to claim 8, wherein step i) comprises:

preparing at least one layer ( $T_1$ ) of exploded polymer fibers;  
laying at least one layer of fibers of absorbent material ( $T_3$ ) on said at least one layer ( $T_1$ ),  
whereby the hydro-entangling step ii) takes place such as to obtain a non-woven fiber

where the polymer fibers exploded into micro-fibers entangle both with one another and the fibers of the absorbent material.

Claim 10. (Original) The process according to claim 8, wherein step i) comprises:

preparing at least one layer ( $T_1$ ) of exploded polymer fibers;  
laying at least one layer of fibers of absorbent material ( $T_3$ ) on said at least one layer ( $T_1$ );  
laying at least one further layer ( $T_2$ ) of exploded polymer fibers on said at least one layer of fibers of absorbent material,  
whereby the hydro-entangling step ii) takes place such as to obtain a multi-layer non-woven in which the polymer fibers exploded into individual micro-fibers entangle both with one another and the fibers of the absorbent material.

Claim 11. (Previously Presented) The process according to claim 8, wherein the exploded polymer fibers are obtained through the passage of polymer fibers through a Laval nozzle.

Claim 12. (Previously Presented) The process according to claim 8, wherein the polymers of the exploded fibers are selected from natural or synthetic polymers.

Claim 13. (Original) The process according to claim 12, wherein the natural polymers are selected from cellulose, Lyocell and PLA, whilst the synthetic polymers are selected from polypropylene, polyethylene, polyamide and polyester.

Claim 14. (Previously Presented) The process according to claim 2, wherein said laying of absorbent material fibers takes place with cellulose pulp fibers.

Claim 15. (Previously Presented) The process according to claim 9, wherein said laying of absorbent material fibers takes place with cellulose pulp fibers.

Claim 16. (Previously Presented) The process according to claim 1, further comprising a drying step after the hydro-entangling step.

Claim 17. (Previously Presented) The process according to claim 8, further comprising a drying step after the hydro-entangling step.

Claim 18. (Previously Presented) The process according to claim 16, further comprising a step of winding the non-woven fabric onto a roller after said drying step.

Claim 19. (Previously Presented) The process according to claim 17, further comprising a step of winding the non-woven fabric onto a roller after said drying step.

Claim 20. (Previously Presented) The process according to claim 2, further comprising a pre-hydro-entangling step after said step of preparing at least one layer ( $T_1$ ) of polymer fibers.

Claim 21. (Previously Presented) The process according to claim 9, further comprising a pre-hydro-entangling step after said step of preparing at least one layer ( $T_1$ ) of polymer fibers.

Claim 22. (Previously Presented) The process according to claim 20, further comprising a drying step after said pre-hydro-entangling step.

Claim 23. (Previously Presented) The process according to claim 21, further comprising a drying step after said pre-hydro-entangling step.

Claim 24. (Previously Presented) The process according to claim 16, further comprising a dewatering step simultaneous or subsequent to said drying step.

Claim 25. (Previously Presented) The process according to claim 17, further comprising a dewatering step simultaneous or subsequent to said drying step.

Claim 26. (Previously Presented) The process according to claim 18, further comprising a thickening step before the winding step.

Claim 27. (Previously Presented) The process according to claim 19, further comprising a thickening step before the winding step.

Claim 28. (Previously Presented) The process according to claim 26, wherein said thickening step takes place through calendering or hydro-entangling.

Claim 29. (Previously Presented) The process according to claim 27, wherein said thickening step takes place through calendering or hydro-entangling.

Claim 30. (Previously Presented) The process according to claim 1, wherein air is sucked at a temperature equal to or lower than room temperature through said polymer fibers in order to cool and cure them.

Claim 31. (Previously Presented) The process according to claim 8, wherein air is sucked at a temperature equal to or lower than room temperature through said polymer fibers in order to cool and cure them.

Claim 32. (Previously Presented) The process according to claim 8, wherein said exploded fibers are humidified before being hydro-entangled.

Claim 33. (Previously Presented) The process according to claim 1, further comprising a non-woven finishing step.

Claim 34. (Previously Presented) The process according to claim 8, further comprising a non-woven finishing step.

Claim 35. (Previously Presented) The process according to claims 1, further comprising a multicolor printing step of the non-woven.

Claim 36. (Previously Presented) The process according to claims 8, further comprising a multicolor printing step of the non-woven.

Claim 37. (Previously Presented) The process according to claim 2, wherein each preparation step of the polymer fibers and laying of the fibers of absorbent material is made on a support (S) having a surface comprising sections with a profile substantially perpendicular to the vertical laying flow of the fibers interspaced by sections with an inclined profile of 10°-50° in relation to said vertical flow.

Claim 38. (Previously Presented) The process according to claim 9, wherein each preparation step of the polymer fibers and laying of the fibers of absorbent material is made on a support (S) having a surface comprising sections with a profile substantially perpendicular to the vertical laying flow of the fibers interspaced by sections with an inclined profile of 10°-50° in relation to said vertical flow.

Claim 39. (Currently Amended) A hydro-entangled single- or multi-layer non-woven  
~~which is obtainable according to the process in accordance with claim 1 produced by a process comprising the steps of:~~

preparing at least one layer (T<sub>1</sub>) of splittable multi-component polymer fibers; and  
hydro-entangling said at least one layer such as to obtain a non-woven where the multi-component polymer fibers are split into mono-component micro-fibers entangling with one another.

Claim 40. (Currently Amended) A hydro-entangled single- or multi-layer non-woven  
~~which is obtainable according to the process in accordance with claim 8 produced by a process comprising the steps of:~~

preparing at least one layer (T<sub>1</sub>) of exploded polymer fibers; and  
hydro-entangling said at least one layer such as to obtain a non-woven where the polymer fibers are exploded into micro-fibers entangling with one another.

Claim 41. (Previously Presented) The non-woven fabric according to claim 39, comprising at least one micro-fiber layer.

Claim 42. (Previously Presented) The non-woven fabric according to claim 40,

comprising at least one micro-fiber layer.

**Claim 43.** (Previously Presented) The non-woven fabric according to claim 41, wherein said micro-fibers have a diameter of between 0.1 dTex and 0.9 dTex.

**Claim 44.** (Previously Presented) The non-woven fabric according to claim 42, wherein said micro-fibers have a diameter of between 0.1 dTex and 0.9 dTex.

**Claim 45.** (Previously Presented) The non-woven according to claim 43, wherein said micro-fibers have a diameter of between 1 and 5 micron.

**Claim 46.** (Previously Presented) The non-woven according to claim 44, wherein said micro-fibers have a diameter of between 1 and 5 micron.

**Claim 47.** (Previously Presented) The non-woven according to claim 45, wherein the weight in grams per meter is between 50 and 70, the tensile strength in the machine direction expressed in Newton per 5 cm (N/5cm) is between 50 and 150, whereas in the cross-direction of between 20 and 75, the elongation calculated as a percentage in relation to the length in a relaxed state is between 35% and 85% in machine direction (MD), whereas it is between 70% and 100% in the cross-direction (CD), the final content of the cellulose pulp fiber is between 50% and 75% by weight of the total weight of the non-woven, the absorption power calculated as a percentage of the total weight of the weight of the dry non-woven is between 600% and 700%.

**Claim 48.** (Previously Presented) The non-woven according to claim 46, wherein the weight in grams per meter is between 50 and 70, the tensile strength in the machine direction expressed in Newton per 5 cm (N/5cm) is between 50 and 150, whereas in the cross-direction of between 20 and 75, the elongation calculated as a percentage in relation to the length in a relaxed state is between 35% and 85% in machine direction (MD), whereas it is between 70% and 100% in the cross-direction (CD), the final content of the cellulose pulp fiber is between 50% and 75% by weight of the total weight of the non-woven, the absorption power calculated as a percentage of the total weight of the weight of the dry non-woven is between

600% and 700%.

Claim 49. (Previously Presented) The non-woven according to claim 45, wherein said non-woven is of a three-layer type having a total weight in grams of between 48 and 65, a weight of the upper layer in grams per square meter of between 11 and 13, a weight of the inner layer of cellulose pulp fiber of between 26 and 39 grams per square meter, a weight of the lower layer in grams per square meter of between 11 and 13, a MD tensile strength of between 18 and 27 N/5cm, a CD tensile strength of between 7 and 14 N/5cm and a thickness of between 0.40 and 0.65 mm.

Claim 50. (Previously Presented) The non-woven according to claim 46, wherein said non-woven is of a three-layer type having a total weight in grams of between 48 and 65, a weight of the upper layer in grams per square meter of between 11 and 13, a weight of the inner layer of cellulose pulp fiber of between 26 and 39 grams per square meter, a weight of the lower layer in grams per square meter of between 11 and 13, a MD tensile strength of between 18 and 27 N/5cm, a CD tensile strength of between 7 and 14 N/5cm and a thickness of between 0.40 and 0.65 mm.

Claim 51. (Previously Presented) Use of splittable or exploded multi-component polymer fibers for the production of a single- or multi-layer non-woven.

Claim 52. (Previously Presented) The use according to claim 50, wherein said multi-layer non-woven comprises one layer of absorbent material fibers between two layers of split or exploded multi-component polymer fibers.